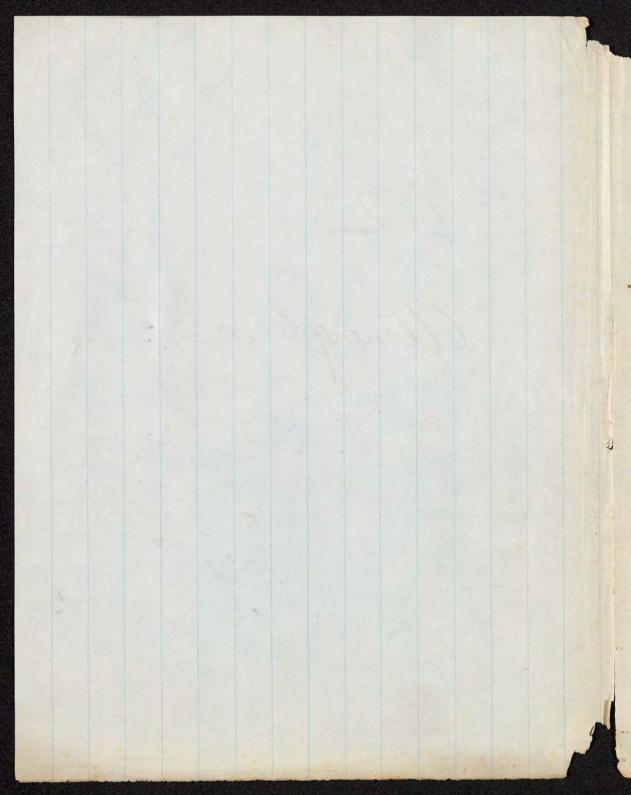
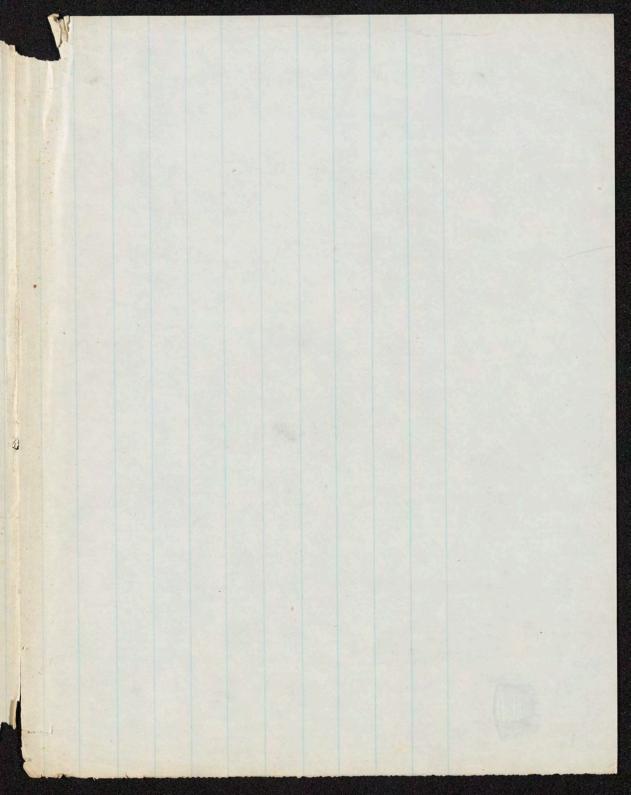
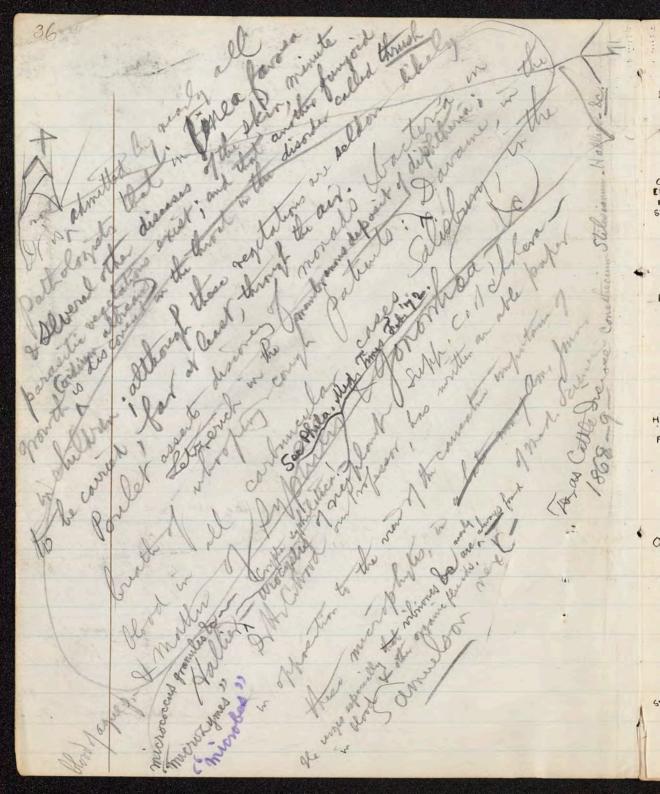


Atmosphere.





in the air Suspended matter is either min-SUSPENDED MATTER. bommon salt is abundant COMMON SALT. Other salts are present; also, steel filings, colton fibres. &c. from manufactories Organic forms also, are metuich. ORGANIC FORMS. The microscope detects germs, ovale. Efwe look at a line of sun-light we will see the innumerable quantity of suspended objects. Tyndall 3,80. We breathe and drink and eat millions of living creatures constanty In the blood of the sheep, bacteria are found, suggesting that diseases may perhaps becaused in thisway in human beings. Wy Vibriones & also. MITCHELLS A. H. Mitchell This theory was renewed by Salisbury of Ohio, There of Showed that a fungus growth on damp straw REVIVAL. causes measles. He proposed preventing measles by giving this fungus disease, just like vaccination.



Market to All long has mening Solvation of mother microphyter (syph, gover Dr. WOODWARD. Dr. Woodward repeated these experi I ments but could not confirm them? The air of rooms, contains definite organic forms: - organic cells, starch corpuscles, epithebuil cells, & PUSS STARCH CORPUSCLES, in hospitals, frust cells. - Eiselt Pourt to In examining the air, we have a clean tube and direct a jet of air on life in the atus lich is instantly fut unor plate moistened with He Living Age s, hospital gangrene, and no. 1010, oct. 10, 1863 ispended in the pir Samuelson's observa or the need of thorough aleta - Japan mellin in of these infusoria is Tunis - Truste - Pen & colon. If an the sleages Conclusions - 1. atmosphere is a warm place for two everywhere changed with sepres 45, it will be found to animalcules Fromtimes, the rent, lence arose the idea of 2. The infusoria comprise not & generation. Acarus Crossie -teria, but also glancomer cy- recorrect. If examined

Address of the state of the contract of the co Mark County of the state of the 3. The germs about more with a air in any mention them after sean. 4. Musety of the declares hay experiment to the all against the the sportments to the sportments to the against the the sportments to t

MANUTE GO TO TOTAL OR OF THE OWNER OWNER OF THE OWNER OW shotwater of much of molist microphytes (suph, govern Dr. WOODWARD. Dr. Woodward repeated these experi ments but could not confirm them The air of rooms, contains definite organic forms: - organic cells, starch corpuscles, epithelinal cells, & STARCH CORPUSCLES, in hospitals, frust cells. cisel Pondet to In examining the air, we have a clean tube and direct a get of air MICROSCOPICAL on a clean plate moistened with EXAMINATION. glycerin, which is instantly fut under the microscope Orysipelas, hospital gangrene, and ERYSIPELAS, HOSPITAL RENE, phthisis are supposed to be caused by these cells suspended in the pir. Hence the need of thorough ventilation. Disuse winds The origin of these infusoria is ORIGINOF INFUSORIA not well known of an the leafe be put in a warm place for two or three days, it will be found to contain many more animals than at first. Hence arose the idea of SPONTANEOUS spontaneous generation. Icarus Crossie GENERATION. This is incorrect. If examined

Disinfectants. record and the Fresh Air, Abundant Water dearded margines Charcoal, (wood tow, Sime Earth Coultar Nitrate of Lead (Ledoyens), Sulphate of Fron, Chlorine: chloride of soda (Labarraques) chloride of lime, chloride of zinc (d'abarrageres) (Burnetts), Permanganate of Potassa (Condijs), Nitroso-nitrie acid, S. Sulphurous acid, Carbolic acid (Ridgewood's McDou-o galls, Corme & Demeaux), Lodine, Bromine, Ozone, Heat, and Gold. End of 3d Lecture, 1842

to contain germs are Le Bonne Jalso. but there that every rom another manipulation. See , - no genned descharted in 1867. : sourcesof From 12 It; 5pr. ct. ed , serve to be so. (XHA) en top house about and to it 30 der of rs, This france after 5 hours ballon In par mirogenous and forms ammonia, darkender SO3 and decolorizing per. manganate of potasson This latter is therefore a good test. In testing, 1 gr. of organic matter is equivalent to 1gr. of Sugar. The odor in a room becomes

Sonne Paris asserts Successful experiments in veg, Sporter generation iten tanimale. Billet de l'Acad Des Sames - Archen En . Je Mid " Och 1866. afternand recarted, 1868. Paster Denels, show noon for error, in the manipulations. Ozone. Heat, and Cold. End of 3d Lecture, 1842

the least would be found to contain 2 upper that girms are TRUE against all the eneration coult down the Separt, gen " expire itation that pariety in they said that every yments me have to is formed from another I ghir the impossibility Difficulties in maripulation. Janel manipulation Lecture XVI the air. as to exclude, at RESPIRA some stare or other) courses CO2. From 12 I all "aeronos" or 000 often exist; 5 pr. ct. Ala ove or spores or see Wyman's experiments. n. 14 perch continued, sense to be so. shales about 30 grs of r in 24 hours, This mell. It is chemically In par murogenous and forms ammonia, darken 503 and decolorizing permanganate of potassam This latter TEST. is therefore a good test. In testing, 1gr. of organic matter is equivalent to 1gr. of sugar. The odor in a room becomes

Pouchet - Glately) Donne continued to Dome has print up, 1868). water is to veg, rolling of fruit to miero e de Ma. - Scoper fungi - while recarted, 1868. also may affect lemes & stems with decay, how noon pulations. Ozone, Heat, and Gold. End of 3th Lecture, 1842

the least would be found to contain ova will now upper that girms are necessary for generation and Domestico. Wyman still doubts it? but there were right when they said that every living being is formed from another living being Difficulties in maripulation. End 30 Lecture, 1872 Lecture XVI We will still consider the sources of impurities in the air. RESPIRATION. Respiration courses CO2. From 12 to 70 pts. in 10,000 often exist; 5 pr. ct. is fatal to man. It perchitationed, since to be so. AN adult exhales about 30 grs of organic matter in 24 hours, This has a fetid smell. It is chemically introgenous and forms ammonia darkening 50, and decolorizing permanganate of potasson This latter TEST. is therefore a good test. In testing, 1gr. of organic matter is equivalent to 1gr. of sugar. The odor in a room becomes

Drangus Smith estimated the amount of organic matter in pure and at 1 gr. in 200,000 cut. fr. In a house 1 gr. in 16000 to 64000 c. fr h close porked or, r. can, I grin Sove for & a house with some and is it, same, Decolonaes permany potassa - Voorkens So3 dram through X. [and of 24th Lecture, 1871.] Fochlesis

strong when & Reader 1 pt. in organ mutte Contamination of the air when long continued causes disease Typhus fever is thus caused; though Some say it is caused by a special contagion. It occurs in camps, ships, and jails. The doubts are of recent origin.
Typhus is produced by foulain in colder regions, that unlike the TYPHUS phoid. In Great Britain & Freland at is very common where poverty low temperature, bad air se abount. ITS CAUSE. Is caused by the concentration of emanations from human beings. After it is once from duced, it is contagious. One who has it, has the poisoning power of a crowd of healthy per-Sons, In 1577, there were 500 typhus! HISTORICAL CASES. deaths in England, In 1750, four judges, and others, in all, about 40,

A Murchison - Sythogenice fever.

In M. & Brothlyon, 1872, Sporter form.

So accounts for - 4 chiter syn wonders on a few many. Tholoro anested on Blurtenell's Island N. Y. 1866, by De Hamilton Ler Lemis Lies, by humby the mon out & ventilating through from whethat his in close hits with manure flow.

died from the air of the court rooms, of the periodical assizes, to It has been doubted whether ed is caused by foul TYPHOID. this countril in Climates. uphoid is not co TWO AGES has in its causation. sonal element, perhaps as in phillisis dquires some breiting cause as absence from promotes it Foul air lends OF FOUNT. demics & epidemics foundline to come, to decline all applications for on of strange children into their institu-BY chardson RICHARDSON. AMDEN ITEMS. in which o MASONIC.

wing Masonic lodges have elected their he ensuing year:—Camden Lodge, No.

Hardacre, W. M.; Allen M. Powell, S. W. B. Frazee, J. W.; James H. Stevens, ames M. Cassady, secretary. Trimble I7—George F. Fort, W. M.; M. B. Taylor, A. G. Milligan, secretary. Siloam H. R. No. 19—Henry U. Homes, High Priest; No. 19—Henry U. Homes, High Priest; Nroth, treasurer; George Shattuck, sec-MASONIC. The rest of GRAND JURORS. wing gentlemen have been selected by dericks as grand jurors for the January he Camden county courts: Casper P. Robert C. Cook, Joseph J. Read, Chas. David Hutton, James Elwell, Isaac Armstrong Lapp, Joseph Sharp, John wing gentlemen have been selected by died likewise

Uncheson welly So accounts for - 4 chille In on Blurtemall's Island N. Y, 1866, by DeHamilton is to turning the men out & ventilating through by homey the men out Ilda, 1 North Heline mante - tribune reconstorin from the Spectator of to-day:in dose hets with manure It appears to be gradually becoming certain that the Prince and Lord Chesterfield were attacked by the fever during the visit to Lord Londesborough. It appears hat the Prince slept in a room into which e-close topens, and the closet communicates with a cesspool ten feet below which has not been cleansed for six years, and this very room was occupied by Lord Chesterfield after the Prince's departure. There is also evidence that there was a back draf of sewer gas up the sewers, and the Lancet be lieves that the air of Londesborough Lodge, which was at the time excessively crowded both with guests and servants, was "really tainted". As the male guests usually retired to rest fatigued with a long day's sport they were just in the c'ndition to imbibe the poison, the smell of which, adds the professional journal, would not of eccessity have been perceived in a house "nervaded". a closet opens, and the closet communicates with a which, adds the professional journal, would not of necessity have been perceived in a house "pervaded by odors of a more agreeable kind," that is, we suppose, by the smell of totacco smoke. The facts are, of course, most annoying for Lord Londesborough; but he did all he could to insure the salubrity of his house, and is not to be blamed because the plumbers were, as usual, not to be trusted for anything except their charges. If we could hang one of them for murdering a Prince the world would be an improved place to live in.

43 died from the air of the court rooms, of the periodical assizes, to 1 It has been doubted whether to TYPHOID. Though is caused by foul gir. som this country we have if in all climates, at all times. Typhoid is not coxtagious. It has in its causation, a her sonal element, perhaps heredilary as in phthisis It requires some execting cause as absence from home. Fort air promotes et merus to produce all endenics & epidemics. This is illustrate
ed in foundling hospitals. In
Youdon foundling hospitals. In CASELIONED TONCION, OU of mentions a family
RICHARDSON. Prichardson mentions a family in which one died of scarlet fever. The rest of the children were kept from the house for a good while after ( 3 weeks when one returned. He died likewise. The house was cash thoroughly cleaned out and

montable improved to the rear let of operations, after butweent mater uncered out benton Catherdor, at It, 13 a Haloning 1872-3 found a Marsonnamy I have the along the section and said in all cases.

quet wast in Sweetland truly in cloud for soll of whitewashed. Another seturned & died. It samed as if no cleaning would prevent it. The reason was that it was on low ground lawcelly. PARISOSPITAL In as hospital in Paris, howind four department, three of them had erypipelas and one had not. It was better ventilated, than pulmonary complaints: philisis bronchitas, prieumonia, prevail in foul air specially. PATHISIS. Phthisis was so frequent in the Tontish navy, that the subject was investigated and it was attributed to over-crowding: same many, banades. Cells may pass and cause it EXHALATIONS The exhalations from sick are worse than from the well. This congregate more in an hospital around a dying man him change. the bad health of certain postions of a city but of photos water sure that the spectoration several lies SEWAGE

Cut of the State of 1818. I know of a case where scarlet fere occurs in some of the montes of a louse, from which one of the children was about & escapes the drawer . This child did not return to the house for a year. At the and of that time returns home, that child was soon attacked with searles fever & deel of it. and the second s

It is sometimes impossible to get MEFICULTY REMOVING SMELLS mid of emanations from sick. They are absorted by the bedding, funiture, walls, se. that are tain hospital having gangrene, was cleaned, but in vain. The turned as soon as more patients came, till to Waspital was form down & rebuilt. Harlow says that ventilation VENTILATION SUNSHINE. and sunskine, remove diseases. In the Obstetric department of PENIYA HOSPITAL the Penna. Hospital, preparal fecer 1540 ver was prevalent and could not ¥ -50 be removed to him up-nonthing the Hust Organic matter is also led by water, wool, feathers, how walls ABSORBTION ORGANIC ER. Straw, horse-hair & hard wall, absors it least. Painting is good, if there are PAINTING no cracks. Dr. Hammond tested an emply room, which had contained sick men and afterwards ventilated,

Barrack Hospitaly! Began to use my original notes arthriplace.

and he found undoubted evidence that organic matter still remained. Industry law whitewashing should be renewed WALL-PAPER. Mal aper absorbs organic matter. Repapering, without taking off the old paper, is very unshealthy. Calcimining is very good. CALCIMINING. Parian cement and several li-PARIAN CEMENT. guid stone preparations are now used. Some right to unpermeable walls. From 36 to 46 per cent of organic matter shas been found in and hospital ward, by chalver, a Paris. OPTHALMIA. Among diseases conveyed by cells, is opthalmia. Combustion injures the air. solid carbon is thrown into it. (for of coal) In London, the fogs are so thick that a person can not see a few feet ahead. Cozisrapidly diffused so that not-much difference can be observed between cities and the country.

A One cubic fort of gas in burning will consume the oxygen of Ecubic feet of air, Carbonic oxide, and bristphile of carbon; both of which make it more poisonous. Hammon soup the good gas burner will produce as much CO2 as & men in breathy the Same length of times Leeds (Let. or Ventila) states the sporting of air, by tonsemption of O & increase of CO2, by one burners = that of 11 men. Cameron pretts It = that 13 men But he culculates orly the opportate, as party of the Coz affective.

Other products of combustion are sulphurous acid, carbonic onide, sulphuretted hydrogen, be. One pound of coal requires 200 cub. fect of air. A lamp requires 3 cub. ft. fier hour. Burning-gas also requires an amount of air AMOUNT OF REQUIRED FOR BUSTION. Reople often get head ache from stoppage of circulation of air, The very worst contamina-SEWER tion A of air, is sewer gas The London servers give off from of gas per hour, Rapid asphyxia is often caused. There was a case of 23 children, of whom two died, who, had asphysica from the opening of a privy I some mile we sever gas consists of carbonic acid, sulphuretted hydrogen, carbo-ammoniaeal gases. &c. Server men are said to be li alle to typhus, & opthalmia. Sever openings near houses,

52 Price of Wales case, typhind few, nov. 1871 or Scotowney Lowestorough Lodge -water. closed in his noon commun, with bad drawed Seve National Notel epitalemine at Washington, 1856. Low eite, baker sem in into heater and chamber - contamination of aix I water of the hotel, Seven dianhora. we few ustames fatal - on several chronic substitute. Duscetting room diswhood. Apphoid fern in Philada, (See Dr. B. Lee's report) most destructive where water & are are hur by servers; Sever men; see my new Ship End 15th Lecture 1869